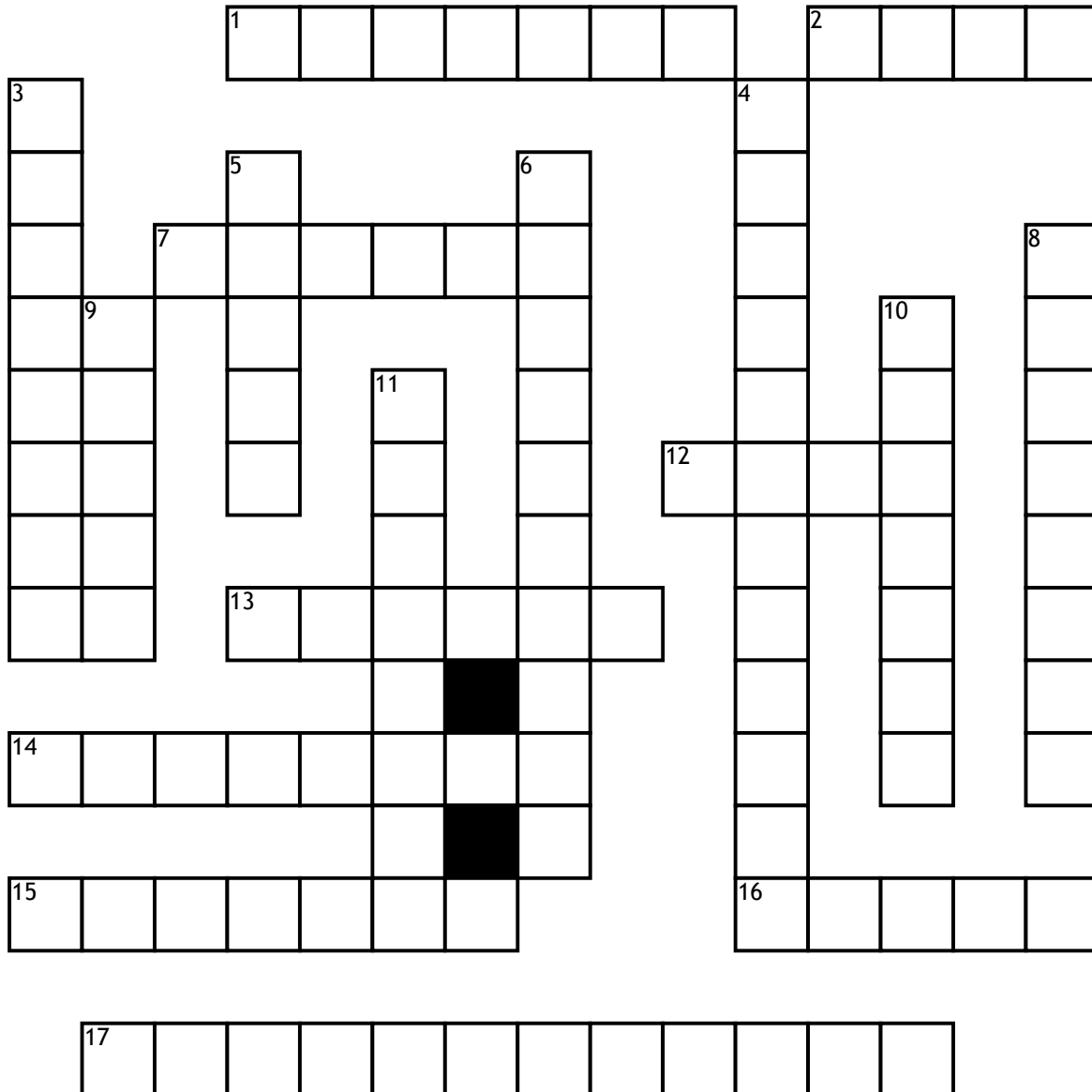


# Force and Motion



## Across

1. The force that attracts a body toward the centre of the earth.

2. The greater the \_\_\_\_\_ of an object, the more force required for it to accelerate.

7. The change in position of an object.

12. Balanced forces are when the forces on both sides are the \_\_\_\_\_.

13. The \_\_\_\_\_ law of motion states that force is proportional to the mass and acceleration of the object.

14. For every action, there is an equal and \_\_\_\_\_ reaction.

15. The unit of measurement for force.

16. The number of Newton's Laws.

17. Force equals mass times \_\_\_\_\_.

## Down

3. The scalar value that describes how far an object travels between point A and B.

4. The distance between two points in a specific direction.

5. The push or pull on an object.

6. Objects will stay at rest or continue in motion unless acted upon by \_\_\_\_\_ forces.

8. The speed of an object in a specific direction.

9. The distance travelled per unit of time.

10. An alternative name for the First Law of Motion.

11. The force that resists the motion of objects sliding against each other.